THEORETICAL AND MATHEMATICAL PHYSICS

Volume 1, Numbers 1-3, 1969

THEORETICAL AND MATHEMATICAL PHYSICS
Volume 1, Numbers 1-3, 1969
(A translation of Teoreticheskaya i Matematicheskaya Fizika)

A

Arbuzov, B. A. - 183
Arsen'ev, A. A. - 94
Atakishiev, N. M. - 46

B

Belyi, V. V. - 320
Bashkirov, A. G. - 213, 311
Bogolyubov, N. N. - 194
Bokov, O. G. - 217

F

Faddeev, L. D. - 1
Fainberg, V. Ya. - 143
Fushchich, V. I. - 187

G

Gorbatenko, M. V. - 171

I

Ibragimov, N. Kh. - 267
Iofa, M. Z. - 143

K

Kalashnikov, V. P. - 108
Khatset, B. I. - 194
Khoruzhii, S. S. - 73
Klimontovich, Yu. L. - 320
Klimyk, A. U. - 243
Komar, A. A. - 39
Krivskii, I. Yu. - 187
Kucherenko, V. V. - 294

L

Logunov, A. A. - 286

M

Mandel', E. L. - 227
Markovski, B. L. - 257
Maslov, V. P. - 289
Mestechkin, M. M. - 221

N

Nguyen Van Hieu - 286
Novozhilov, Yu. V. - 78

O

Ogievetskii, V. I. - 14

P

Perelomov, A. M. - 275
Petrina, D. Ya. - 194
Polubarinov, I. V. - 26
Popov, V. S. - 275
Prokhvatilov, E. V. - 78

R

Romanko, G. D. - 187
Romanov, Yu. A. - 171

S

Shekhter, L. Sh. - 217
Shirokov, Yu. M. - 164
Slad', L. M. - 39
Slavnov, D. A. - 153, 251
Stoyanov, D. Ts. - 257
Sushko, V. N. - 119

T

Troitskii, V. E. - 164

V

Vasil'ev, A. N. - 139, 233
Vladimirov, V. S. - 51

Y

Yakubov, A. F. - 139

Z

Zav'yalov, O. I. - 119
Zhislin, G. M. - 227
Zubarev, D. N. - 108, 311
Zupnik, B. M. - 14

THEORETICAL AND MATHEMATICAL PHYSICS

Volume 1, Numbers 1-3, 1969

(A translation of Teoreticheskaya i Matematicheskaya Fizika)

Engl./Russ.

Volume 1, Number 1 October, 1969

The Feynman Integral for Singular Lagrangians – L. D. Faddeev 1 3
Investigation of Nonlinear Realizations of Chiral Groups by the Method of Generating Functions – B. M. Zupnik and V. I. Ogievetskii 14 19
Variational Principle and Nonconserved Operators – I. V. Polubarinov 26 34
Mass Spectrum of Relativistic Invariant Equations in an Infinite Number of Dimensions – A. A. Komar and L. M. Slad' 39 50
Asymptotic Behavior of the Green's Function in Some Models of Nonrenormalizable Field Theory – N. M. Atakishiev 46 60
Linear Passive Systems – V. S. Vladimirov 51 67
Extended Locality and Other Properties of Local W*-Algebras – S. S. Khoruzhii 73 95
Representations of the Poincaré Group in E(2) Bases – Yu. V. Novozhilov and E. V. Prokhvatilov 78 101
Asymptotics of the Wave Function of the Quasistationary State – A. A. Arsen'ev 94 120
Extremal Properties of the Nonequilibrium Statistical Operator – D. N. Zubarev and V. P. Kalashnikov 108 137

Volume 1, Number 2 November, 1969

Canonical Variables in the Physics of Infinite Systems – O. I. Zav'yalov and V. N. Sushko 119 153
Vacuum Degeneration and Spurion Formalism for the Rotation Group – A. N. Vasil'ev and A. F. Yakubov 139 182
Wightman Formulation for Nonlocalizable Field Theories. II. Theory of Asymptotic Fields and Particles – M. Z. Iofa and V. Ya. Fainberg 143 187
On a Variant of S-Matrix Theory – D. A. Slavnov 153 200
Relation between Jumps at Kinematic and Anomalous Cuts and the S-Matrix at a Mass Shell – V. E. Troitskii and Yu. M. Shirokov 164 213
New Covariant Approach to Spinor-Field Theory – M. V. Gorbatenko and Yu. A. Romanov 171 222
The Lamb Shift and Nonlinear Electrodynamics – B. A. Arbuzov 183 238
Kemmer–Duffin Type Equations in a Five-Dimensional Minkowski Space – I. Yu. Krivskii, G. D. Romanko, and V. I. Fushchich 187 242
Mathematical Description of the Equilibrium State of Classical Systems on the Basis of the Canonical Ensemble Formalism – N. N. Bogolyubov, D. Ya. Petrina, and B. I. Khatset 194 251
Statistical Theory of Thermal Diffusion of Brownian Particles – A. G. Bashkirov 213 275
Theory of the Polarizability Tensor of Arbitrary Rank for Nonlinear Media – O. G. Bokov and L. Sh. Shekhter 217 281
Conditions for the Representability of the Density Matrix – M. M. Mestechkin 221 287
Spectrum of Molecular Electron Energy Operators in Spaces of Functions of Specified Symmetry – G. M. Zhislin and E. L. Mandel' 227 295

Volume 1, Number 3 December, 1969

Algebraic Structure of Local Field Theory with Finite-Fold Vacuum Degeneracy – A. N. Vasil'ev	233	305
One Class of Representations of Current Algebra – A. U. Klimyk	243	318
Asymptotic States in the Quantum Field Theory – D. A. Slavnov	251	329
Invariant Equations for Nonlinearly-Transforming Fields and Laws of Conservation – B. L. Markovski and D. Ts. Stoyanov	257	337
Invariant Variational Problems and Conservation Laws (Remarks on Noether's Theorem) – N. Kh. Ibragimov	267	350
Group-Theoretical Aspects of the Variable Frequency Oscillator Problem – A. M. Perelomov and V. S. Popov	275	360
On the Possibility of Experimentally Investigating the Effective Radius of Strong Interactions – A. A. Logunov and Nguyen Van Hieu	286	375
Transition of the Heisenberg Equation for $h \to 0$ to the Dynamic Equation of a Monoatomic Ideal Gas and Quantization of Relativistic Hydrodynamics – V. P. Maslov	289	378
Quasiclassical Asymptotics of a Point-Source Function for the Stationary Schrödinger Equation – V. V. Kucherenko	294	384
Statistical Derivation of the Kramers – Fokker – Planck Equation — A. G. Bashkirov and D. N. Zubarev	311	407
Kinetic Equations in an Electron – Phonon System – V. V. Belyi and Yu. L. Klimontovich	320	421
ERRATA	326	
INDEX		
Author Index, Volume 1, Numbers 1-3, 1969	329	
Tables of Contents, Volume 1, Numbers 1-3, 1969	331	